

NONNEGATIVELY CURVED ALEXANDROV SPACES WITHOUT CONJUGATE POINTS

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Abstract

In this short note, we show that any nonnegatively curved Alexandrov spaces without conjugate points must be flat. Our method is based on the Alexandrov-Toponogov hinge theorem on Alexandrov spaces and the characteristic of Minkowski metric on noncompact length spaces without conjugate points.

Keywords and phrases: conjugate points, Alexandrov spaces, skew-symmetric, Busemann functions.

Received February 3, 2018

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